

ISC590YH – IS 513 Part 2 (2016) – DP-HHE- Technical Datasheet

1. Chemical & Mechanical Properties

Property	Value
C (%)	≤0.10
Mn (%)	≤2.40
Si (%)	≤1.50
P (%)	≤0.020
S (%)	≤0.020
Al (%)	0.02-0.06
Ti (%)	≤0.15
Nb (%)	≤0.09
Yield Strength YS (MPa min)	590
Tensile Strength UTS (MPa min)	650
Elongation A80 (%) min	18

2. Equivalent / Alternative Grades

Grad e	Standa rd	С%	Mn %	Si%	Р%	S%	Al%	Ti%	Nb %	YS (MP a)	UTS (MP a)
AST	ASTM	≤0.1	≤2.4	≤1.5	≤0.02	≤0.02	0.02	≤0.1	≤0.0	590	650
M Gr	A1008	0	0	0	0	0	_	5	9		
590							0.06				
EN	EN	≤0.1	≤2.4	≤1.5	≤0.02	≤0.02	0.02	≤0.1	≤0.0	590	670
Gr	10338	0	0	0	0	0	_	5	9		
590							0.06				
JFS	JFS	≤0.1	≤2.4	≤1.5	≤0.02	≤0.02	0.02	≤0.1	≤0.0	590	680
Gr	A2001	0	0	0	0	0	_	5	9		
590							0.06				

3. Common Applications

- Automotive safety members
- Energy absorbing components
- Crash structures

4. Standard Conformance

Cold-reduced sheet/strip conforming to IS 513 Part 2 (2016).

5. Disclaimer

All chemical compositions, mechanical properties, dimensions and other technical data presented on this page are provided by Raunaq Steels Trading Pvt. Ltd. for **general reference only**. While we endeavour to ensure that the information is as accurate and upto-date as possible, **no warranty, express or implied, is given** as to its completeness, correctness or fitness for any particular purpose. Raunaq Steels Trading Pvt. Ltd. **accepts no liability** for any loss or damage arising directly or indirectly from the use of, or reliance upon, the information contained herein. For **authoritative** and **legally binding** specifications, users must refer to the **official publications** of the relevant standards—such as the BIS, ASTM, EN or JIS standards—available through their respective websites or published documents